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☐ 1. Document ID: US 7151172 B1

L5: Entry 1 of 20

File: USPT

Dec 19, 2006

US-PAT-NO: 7151172

DOCUMENT-IDENTIFIER: US 7151172 B1

TITLE: Attenuated vif DNA immunization cassettes for genetic vaccines

DATE-ISSUED: December 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ayyavoo; Velpandi	Monroeville	PA		US
Nagashunmugam; Thanadavarayan	Monroeville	PA		US
Weiner; David B.	Merion Station	PA		US

US-CL-CURRENT: 536/23.72; 435/320.1, 435/325, 435/69.1, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 2. Document ID: US 7070993 B2

L5: Entry 2 of 20

File: USPT

Jul 4, 2006

US-PAT-NO: 7070993

DOCUMENT-IDENTIFIER: US 7070993 B2

TITLE: Lentiviral packaging constructs

DATE-ISSUED: July 4, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030054548 A1	March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaleko; Michael	Potomac	MD		US
Luo; Tianci	Clarksville	MD		US
Plavec; Ivan	Sunnyvale	CA		US

Douglas; Janet Lynn

San Francisco

CA

US

US-CL-CURRENT: 435/325; 435/320.1, 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 7001759 B1

L5: Entry 3 of 20

File: USPT

Feb 21, 2006

US-PAT-NO: 7001759

DOCUMENT-IDENTIFIER: US 7001759 B1

TITLE: Compositions and methods for delivery of genetic material

DATE-ISSUED: February 21, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weiner; David B.	Merion	PA		US
Williams; William V.	Havertown	PA		US
Wang; Bin	Havertown	PA		US

US-CL-CURRENT: 435/320.1; 514/44, 514/615, 514/818, 536/23.1, 536/23.7, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6942969 B2

L5: Entry 4 of 20

File: USPT

Sep 13, 2005

US-PAT-NO: 6942969

DOCUMENT-IDENTIFIER: US 6942969 B2

TITLE: Compositions and methods for determining anti-viral drug susceptibility and resistance and anti-viral drug screening

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Capon; Daniel J.	Hillsborough	CA		
Petropoulos; Christos J.	Half Moon Bay	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/369, 435/370

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6468982 B1

L5: Entry 5 of 20

File: USPT

Oct 22, 2002

US-PAT-NO: 6468982

DOCUMENT-IDENTIFIER: US 6468982 B1

TITLE: Genetic immunization

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weiner; David B.	Merion	PA		
Williams; William V.	Havertown	PA		
Wang; Bin	Havertown	PA		

US-CL-CURRENT: 514/44; 435/320.1, 514/615, 514/818, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 6. Document ID: US 6451323 B1

L5: Entry 6 of 20

File: USPT

Sep 17, 2002

US-PAT-NO: 6451323

DOCUMENT-IDENTIFIER: US 6451323 B1

TITLE: Recombinant newcastle disease virus RNA expression systems and vaccines

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garcia-Sastre; Adolfo	New York	NY		
Palese; Peter	Leonia	NJ		

US-CL-CURRENT: 424/214.1; 424/192.1, 536/23.4, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 7. Document ID: US 6444445 B2

L5: Entry 7 of 20

File: USPT

Sep 3, 2002

US-PAT-NO: 6444445

DOCUMENT-IDENTIFIER: US 6444445 B2

TITLE: Live vaccine against Brucellosis

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nikolich; Mikeljon P.	Takoma Park	MD		
Hoover; David L.	Rockville	MD		
Warren; Richard L.	Blue Bell	PA		
Lindler; Luther E.	Wheaton	MD		
Hadfield; Ted L.	Colesville	MD		
Schurig; Gerhardt G.	Blacksburg	VA		
Boyle; Stephen M.	Blacksburg	VA		
McOulston; John R.	Blacksburg	VA		
Sriranganathan; Nammalwar	Blacksburg	VA		

US-CL-CURRENT: 435/69.3; 424/252.1, 435/243, 435/320.1, 435/476, 435/69.1,
435/71.1, 435/71.2, 536/23.1, 536/23.7, 536/24.1, 536/24.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D.
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☐ 8. Document ID: US 6348449 B1

L5: Entry 8 of 20

File: USPT

Feb 19, 2002

US-PAT-NO: 6348449

DOCUMENT-IDENTIFIER: US 6348449 B1

TITLE: Methods of inducing mucosal immunity

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weiner; David B.	Merion	PA		
Wang; Bin	Havertown	PA		
Ugen; Kenneth E.	Philadelphia	PA		

US-CL-CURRENT: 514/44; 424/130.1, 424/184.1, 424/209.1, 435/235.1, 435/252.3,
435/320.1, 435/455, 514/2, 514/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D.
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☐ 9. Document ID: US 6271369 B1

L5: Entry 9 of 20

File: USPT

Aug 7, 2001

US-PAT-NO: 6271369

DOCUMENT-IDENTIFIER: US 6271369 B1

TITLE: Chimeric molecules targeted to viral RNAs

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Torrence; Paul F.	Flagstaff	AZ		
Silverman; Robert H.	Beechwood	OH		
Maitra; Ratan K.	South Euclid	OH		
Lesiak; Krystyna	Stone Mountain	GA		

US-CL-CURRENT: 536/24.5; 435/199, 435/6, 536/23.1, 536/24.1, 536/25.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 10. Document ID: US 6242187 B1

L5: Entry 10 of 20

File: USPT

Jun 5, 2001

US-PAT-NO: 6242187

DOCUMENT-IDENTIFIER: US 6242187 B1

TITLE: Compositions and methods for determining anti-viral drug susceptibility and resistance and anti-viral drug screening

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Capon; Daniel J.	Hillsborough	CA		
Petropoulos; Christos J.	Half Moon Bay	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/369, 435/370

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 1. Document ID: US 7044125 B2

L11: Entry 1 of 16

File: USPT

May 16, 2006

US-PAT-NO: 7044125

DOCUMENT-IDENTIFIER: US 7044125 B2

TITLE: Drug delivery system including holder and drug container

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040025866 A1

February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vedrine; Lionel	St. Martin d'Heres			FR
Jansen; Hubert	Marburg-Michelbach			DE
Grimard; Jean Pierre	Vif			FR
Guillory; Michel	Meylan			FR

US-CL-CURRENT: 128/200.19; 604/218

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 6759241 B1

L11: Entry 2 of 16

File: USPT

Jul 6, 2004

US-PAT-NO: 6759241

DOCUMENT-IDENTIFIER: US 6759241 B1

**** See image for Certificate of Correction ****

TITLE: Adjuvant comprising a lipopolysaccharide antagonist

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hone; David M.	Ellicott City	MD		
Crowley; Richard	Solana Beach	CA		

Shata; Mohamed Tarek

New York

NY

US-CL-CURRENT: 435/325; 424/184.1, 424/234.1, 435/7.2, 435/810

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000C	Draw D
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☐ 3. Document ID: US 6713279 B1

L11: Entry 3 of 16

File: USPT

Mar 30, 2004

US-PAT-NO: 6713279

DOCUMENT-IDENTIFIER: US 6713279 B1

TITLE: Non-stochastic generation of genetic vaccines and enzymes

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Rancho Santa Fe	CA		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/334, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000C	Draw D
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☐ 4. Document ID: US 6689783 B2

L11: Entry 4 of 16

File: USPT

Feb 10, 2004

US-PAT-NO: 6689783

DOCUMENT-IDENTIFIER: US 6689783 B2

TITLE: Aryl oxime-piperazines useful as CCR5 antagonists

DATE-ISSUED: February 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clader; John W.	Cranford	NJ		
Lin; Sue-Ing Y.	East Hanover	NJ		
Mc Combie; Stuart W.	Caldwell	NJ		
Pushpavanam; Pradeep B.	Edison	NJ		
Vice; Susan	Mountainside	NJ		

US-CL-CURRENT: 514/252.18; 514/252.11, 514/252.13, 544/295, 544/357, 544/360,
544/364

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000C	Draw D
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☐ 5. Document ID: US 6689765 B2

L11: Entry 5 of 16

File: USPT

Feb 10, 2004

US-PAT-NO: 6689765

DOCUMENT-IDENTIFIER: US 6689765 B2

**** See image for Certificate of Correction ****

TITLE: Piperazine derivatives useful as CCR5 antagonists

DATE-ISSUED: February 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baroudy; Bahige M.	Westfield	NJ		
Clader; John W.	Cranford	NJ		
Josien; Hubert B.	Jersey City	NJ		
McCombie; Stuart W.	Caldwell	NJ		
McKittrick; Brian A.	Bloomfield	NJ		
Miller; Michael W.	Westfield	NJ		
Neustadt; Bernard R.	West Orange	NJ		
Palani; Anandan	Kenilworth	NJ		
Smith; Elizabeth M.	Verona	NJ		
Steensma; Ruo	Weehawken	NJ		
Tagat; Jayaram R.	Westfield	NJ		
Vice; Susan F.	Mountainside	NJ		
Laughlin; Mark A.	Edison	NJ		
Gilbert; Eric	Scotch Plains	NJ		
Labroli; Marc A.	Mount Laurel	NJ		

US-CL-CURRENT: 514/63; 514/2, 514/220, 514/252.12, 514/252.13, 514/252.19,
514/253.01, 514/253.1, 514/253.11, 514/42, 514/43, 514/45, 514/49, 514/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6653443 B2

L11: Entry 6 of 16

File: USPT

Nov 25, 2003

US-PAT-NO: 6653443

DOCUMENT-IDENTIFIER: US 6653443 B2

TITLE: Multimerization of HIV-1 Vif protein as a therapeutic target

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhang; Hui	Philadelphia	PA		
Pomerantz; Roger J.	Chalfont	PA		

Yang; Bin

Bala Cynwyd

PA

US-CL-CURRENT: 530/327; 530/324, 530/325, 530/326, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 7. Document ID: US 6635646 B1

L11: Entry 7 of 16

File: USPT

Oct 21, 2003

US-PAT-NO: 6635646

DOCUMENT-IDENTIFIER: US 6635646 B1

TITLE: Pegylated interferon alfa-CCR5 antagonist combination HIV therapy

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laughlin; Mark A.	Edison	NJ		

US-CL-CURRENT: 514/252.11; 424/85.7, 514/252.18, 514/253.01, 514/253.09, 514/253.1,
514/253.11, 514/340

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 8. Document ID: US 6602885 B2

L11: Entry 8 of 16

File: USPT

Aug 5, 2003

US-PAT-NO: 6602885

DOCUMENT-IDENTIFIER: US 6602885 B2

**** See image for Certificate of Correction ****

TITLE: Piperidine derivatives useful as CCR5 antagonists

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baroudy; Bahige M.	Westfield	NJ		
Clader; John W.	Cranford	NJ		
Josien; Hubert B.	Jersey City	NJ		
McCombie; Stuart W.	Caldwell	NJ		
McKittrick; Brian A.	Bloomfield	NJ		
Miller; Michael W.	Westfield	NJ		
Neustadt; Bernard R.	West Orange	NJ		
Palani; Anandan	Kenilworth	NJ		
Steensma; Ruo	Weehawken	NJ		

Tagat; Jayaram R.	Westfield	NJ
Vice; Susan F.	Mountainside	NJ
Laughlin; Mark A.	Edison	NJ

US-CL-CURRENT: 514/316; 544/333, 544/336, 544/405, 546/186, 546/187, 546/188, 546/191

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 9. Document ID: US 6479258 B1

L11: Entry 9 of 16

File: USPT

Nov 12, 2002

US-PAT-NO: 6479258

DOCUMENT-IDENTIFIER: US 6479258 B1

**** See image for Certificate of Correction ****

TITLE: Non-stochastic generation of genetic vaccines

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Rancho Santa Fe	CA		

US-CL-CURRENT: 435/69.1; 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 10. Document ID: US 6391865 B1

L11: Entry 10 of 16

File: USPT

May 21, 2002

US-PAT-NO: 6391865

DOCUMENT-IDENTIFIER: US 6391865 B1

TITLE: Piperazine derivatives useful as CCR5 antagonists

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baroudy; Bahige M.	Westfield	NJ		
Clader; John W.	Cranford	NJ		
Josien; Hubert B.	Jersey City	NJ		
McCombie; Stuart W.	Caldwell	NJ		
McKittrick; Brian A.	Bloomfield	NJ		
Miller; Michael W.	Westfield	NJ		
Neustadt; Bernard R.	West Orange	NJ		

Palani; Anandan	Kenilworth	NJ
Smith; Elizabeth M.	Verona	NJ
Steensma; Ruo	Weehawken	NJ
Tagat; Jayaram R.	Westfield	NJ
Vice; Susan F.	Mountainside	NJ
Gilbert; Eric	Scotch Plains	NJ
Labroli; Marc A.	Mount Laurel	NJ

US-CL-CURRENT: 514/63; 514/252.11, 514/252.18, 514/253.01, 514/253.09, 514/253.1, 514/253.11, 514/64, 544/229, 544/295, 544/360, 544/364

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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VIF and antagonist.clm.

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- ☐ 1: [Yang B, Gao L, Li L, Lu Z, Fan X, Patel CA, Pomerantz RJ, DuBois GC, Zhang H.](#) Related Articles, Links



Potent suppression of viral infectivity by the peptides that inhibit multimerization of human immunodeficiency virus type 1 (HIV-1) Vif proteins.

J Biol Chem. 2003 Feb 21;278(8):6596-602. Epub 2002 Dec 11.
PMID: 12480936 [PubMed - indexed for MEDLINE]

- ☐ 2: [Yang S, Sun Y, Zhang H.](#) Related Articles, Links



The multimerization of human immunodeficiency virus type I Vif protein: a requirement for Vif function in the viral life cycle.

J Biol Chem. 2001 Feb 16;276(7):4889-93. Epub 2000 Nov 8.
PMID: 11071884 [PubMed - indexed for MEDLINE]

- ☐ 3: [Baraz L, Friedler A, Blumenzweig I, Nussinov O, Chen N, Steinitz M, Gilon C, Kotler M.](#) Related Articles, Links



Human immunodeficiency virus type 1 Vif-derived peptides inhibit the viral protease and arrest virus production.

FEBS Lett. 1998 Dec 28;441(3):419-26.
PMID: 9891983 [PubMed - indexed for MEDLINE]

- ☐ 4: [Zhang H, Pomerantz RJ, Dornadula G, Sun Y.](#) Related Articles, Links



Human immunodeficiency virus type 1 Vif protein is an integral component of an mRNP complex of viral RNA and could be involved in the viral RNA folding and packaging process.

J Virol. 2000 Sep;74(18):8252-61.
PMID: 10954522 [PubMed - indexed for MEDLINE]

- ☐ 5: [Friedler A, Blumenzweig I, Baraz L, Steinitz M, Kotler M, Gilon C.](#) Related Articles, Links



Peptides derived from HIV-1 Vif: a non-substrate based novel type of HIV-1 protease inhibitors.









J Mol Biol. 1999 Mar 19;287(1):93-101.
PMID: 10074409 [PubMed - indexed for MEDLINE]

- ☐ 6: [Yang X, Goncalves J, Gabuzda D.](#) Related Articles, Links



Phosphorylation of Vif and its role in HIV-1 replication.

J Biol Chem. 1996 Apr 26;271(17):10121-9.
PMID: 8626571 [PubMed - indexed for MEDLINE]

- ☐ 7: [Feng F, Davis A, Lake JA, Carr J, Xia W, Burrell C, Li P.](#) [Related Articles, Links](#)
 Ring finger protein ZIN interacts with human immunodeficiency virus type 1 Vif.
J Virol. 2004 Oct;78(19):10574-81.
PMID: 15367624 [PubMed - indexed for MEDLINE]
- ☐ 8: [Hassaine G, Courcoul M, Bessou G, Barthalay Y, Picard C, Olive D, Collette Y, Vigne R, Decroly E.](#) [Related Articles, Links](#)
 The tyrosine kinase Hck is an inhibitor of HIV-1 replication counteracted by the viral vif protein.
J Biol Chem. 2001 May 18;276(20):16885-93. Epub 2001 Feb 27.
PMID: 11278465 [PubMed - indexed for MEDLINE]
- ☐ 9: [Ribeiro AC, Maia e Silva A, Santa-Marta M, Pombo A, Moniz-Pereira J, Goncalves J, Barahona I.](#) [Related Articles, Links](#)
 Functional analysis of Vif protein shows less restriction of human immunodeficiency virus type 2 by APOBEC3G.
J Virol. 2005 Jan;79(2):823-33.
PMID: 15613310 [PubMed - indexed for MEDLINE]
- ☐ 10: [Goncalves J, Shi B, Yang X, Gabuzda D.](#) [Related Articles, Links](#)
 Biological activity of human immunodeficiency virus type 1 Vif requires membrane targeting by C-terminal basic domains.
J Virol. 1995 Nov;69(11):7196-204.
PMID: 7474141 [PubMed - indexed for MEDLINE]
- ☐ 11: [Baraz L, Hutoran M, Blumenzweig I, Katzenellenbogen M, Friedler A, Gilon C, Steinitz M, Kotler M.](#) [Related Articles, Links](#)
 Human immunodeficiency virus type 1 Vif binds the viral protease by interaction with its N-terminal region.
J Gen Virol. 2002 Sep;83(Pt 9):2225-30.
PMID: 12185277 [PubMed - indexed for MEDLINE]
- ☐ 12: [Khan MA, Akari H, Kao S, Aberham C, Davis D, Buckler-White A, Strebel K.](#) [Related Articles, Links](#)
 Intravirion processing of the human immunodeficiency virus type 1 Vif protein by the viral protease may be correlated with Vif function.
J Virol. 2002 Sep;76(18):9112-23.
PMID: 12186895 [PubMed - indexed for MEDLINE]
- ☐ 13: [Yang X, Gabuzda D.](#) [Related Articles, Links](#)
 Mitogen-activated protein kinase phosphorylates and regulates the HIV-1 Vif protein.
J Biol Chem. 1998 Nov 6;273(45):29879-87.
PMID: 9792705 [PubMed - indexed for MEDLINE]
- ☐ 14: [Ma XY, Sova P, Chao W, Volsky DJ.](#) [Related Articles, Links](#)
 Cysteine residues in the Vif protein of human immunodeficiency virus type 1 are essential for viral infectivity.
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